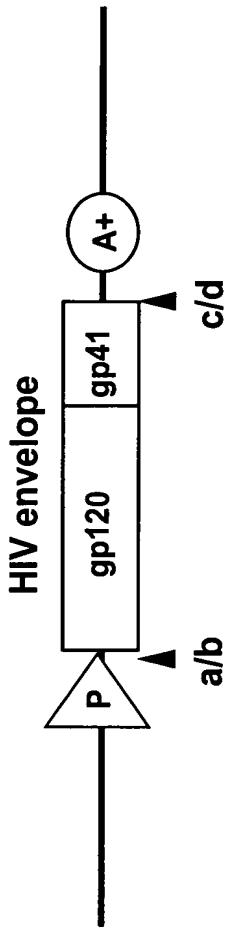


PhenoSense HIV Entry Assay

Envelope Expression Vector: pHIVenv



HIV-1 Expression Vector: pHIVlucΔU3

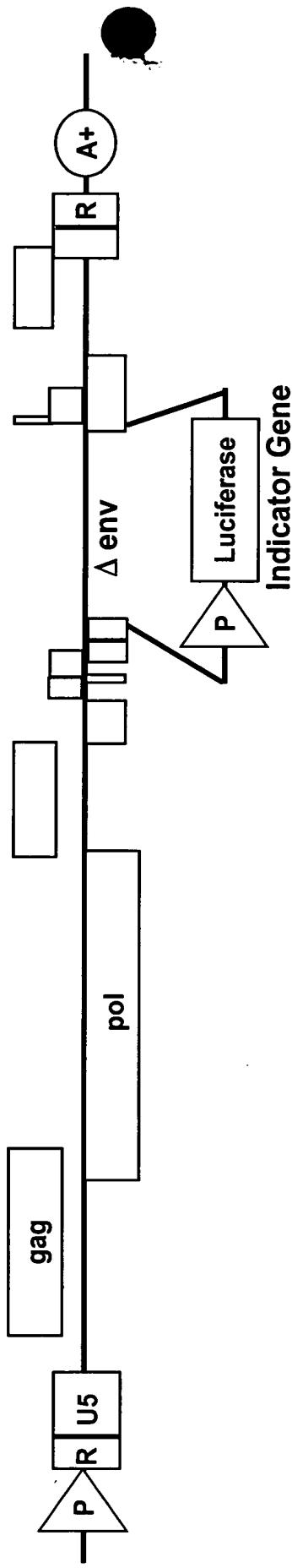
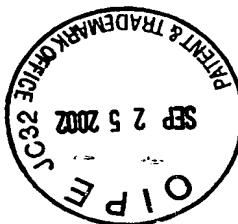


Fig. 1A



PhenoSense™ HIV: Cell Assay

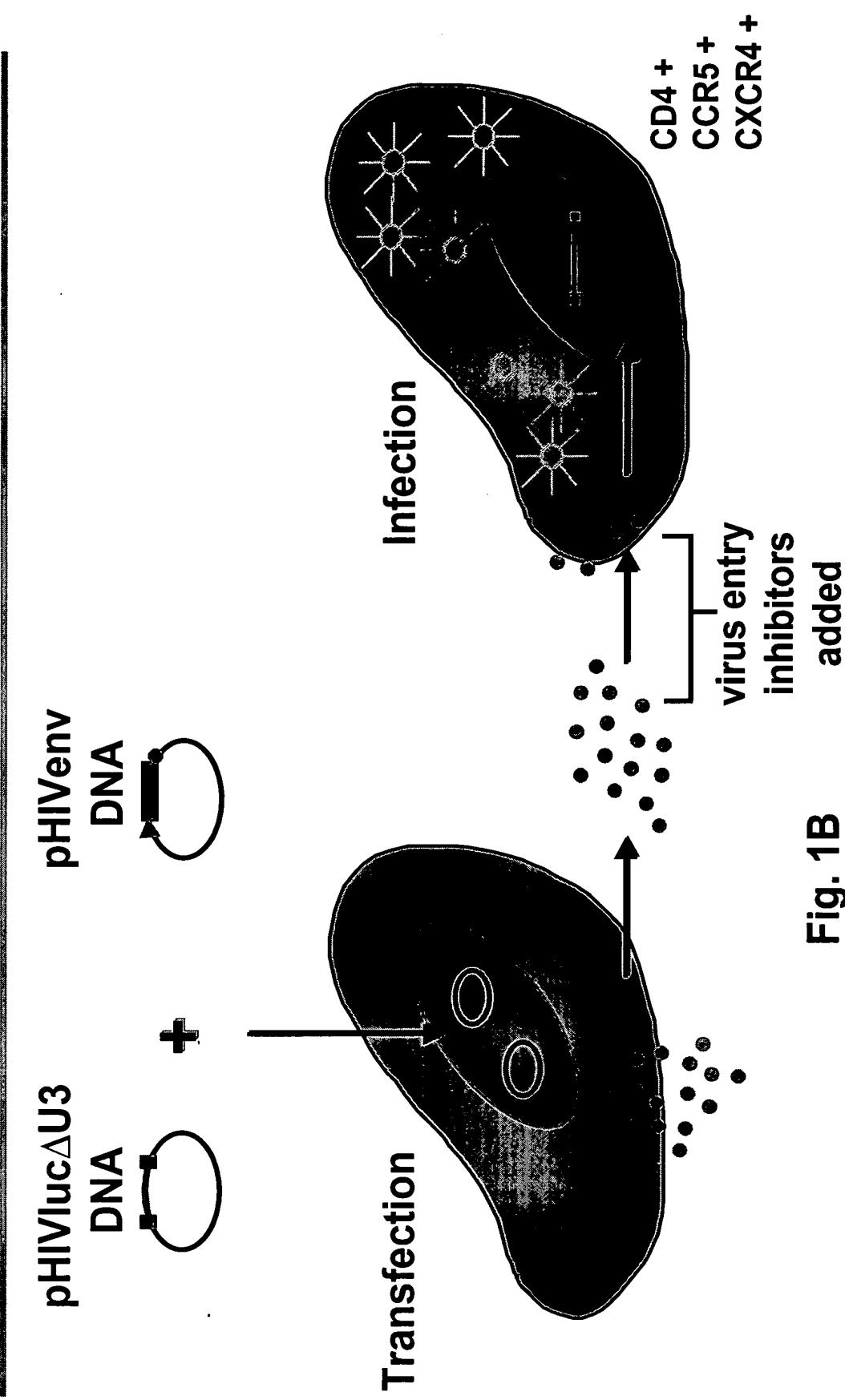
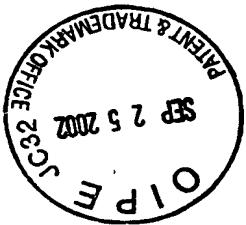


Fig. 1B



HIV Envelope Expression Strategies

U.S. Patent and Trademark Office

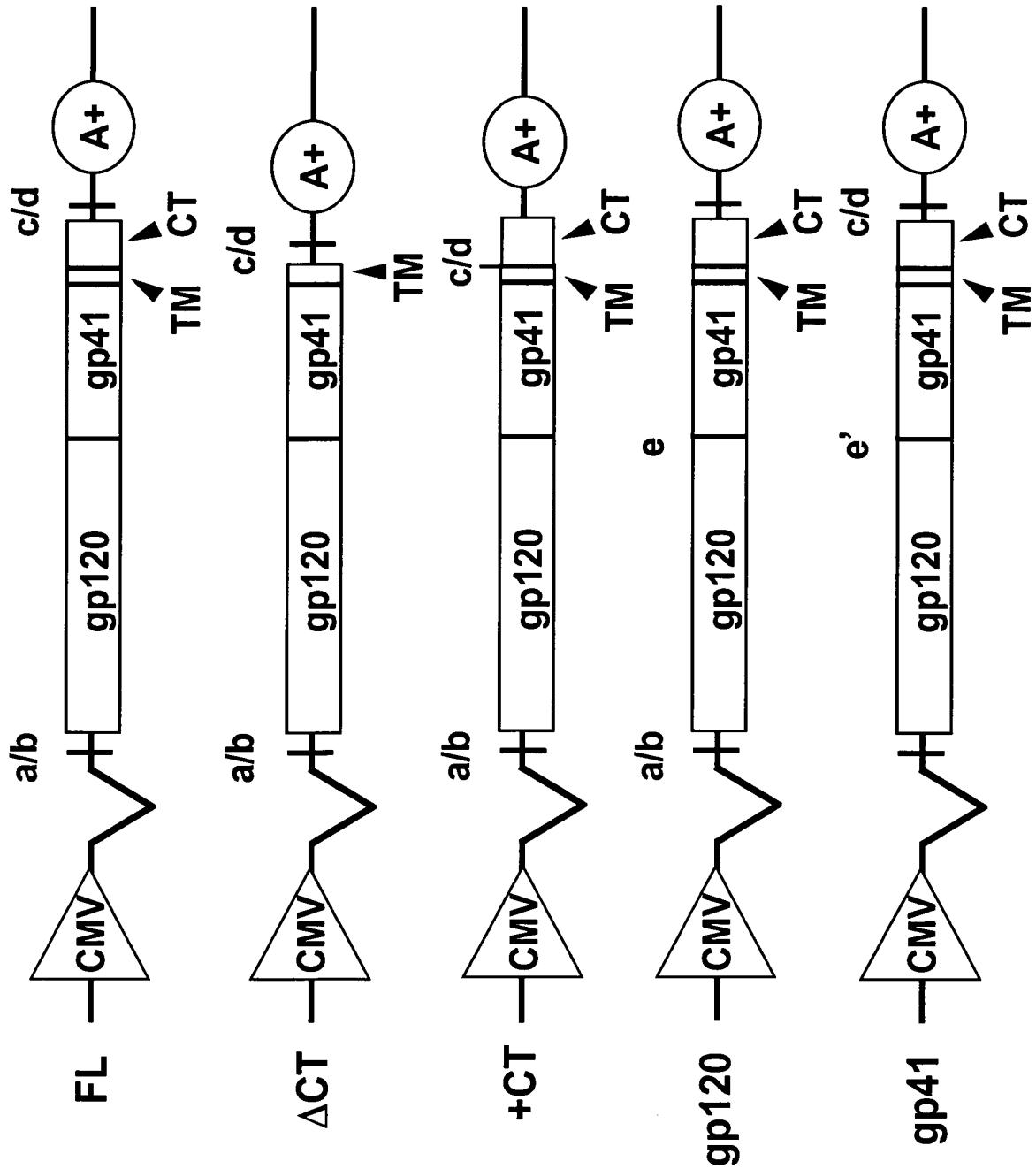
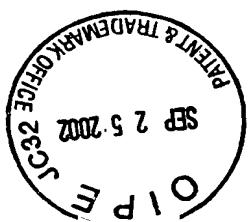


Fig. 2



Co-Receptor Tropism Screen

CCR5-expressing cells

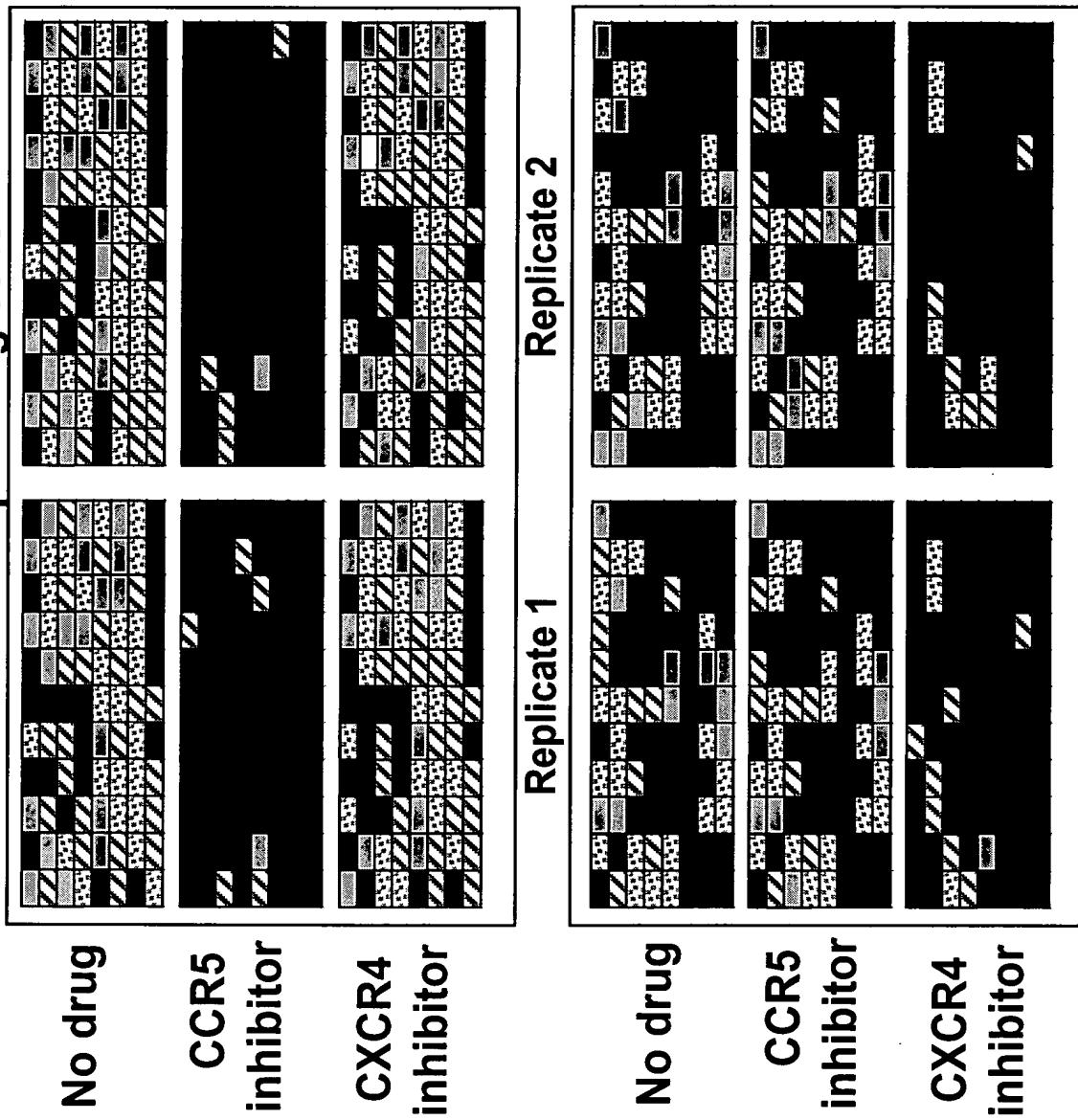
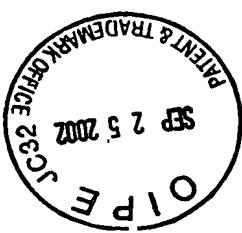


Fig. 3A

CXCR4-expressing cells



Co-Receptor Tropism Assay Interpretation

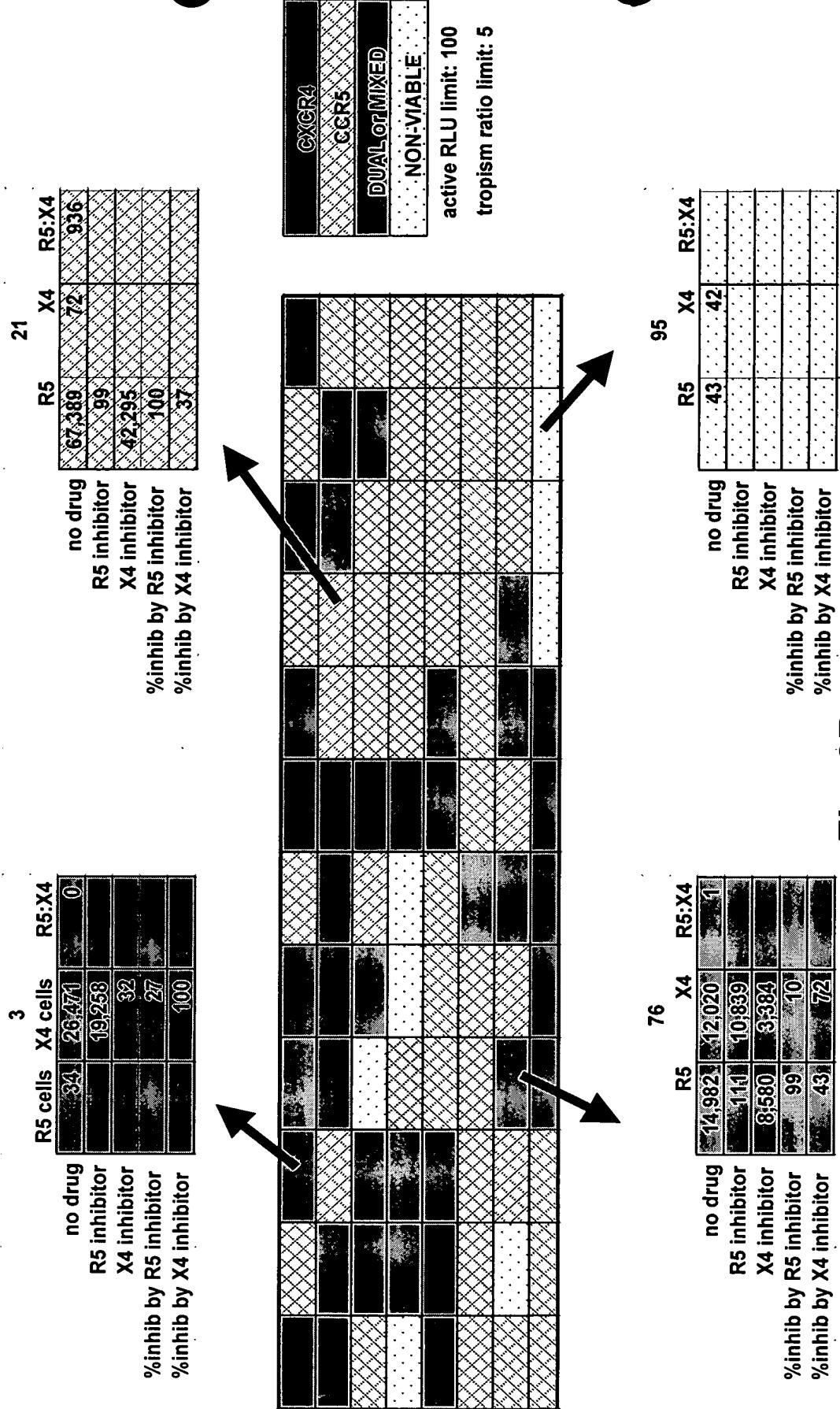


Fig. 3B

Entry Inhibitor Susceptibility: Fusion Inhibitor

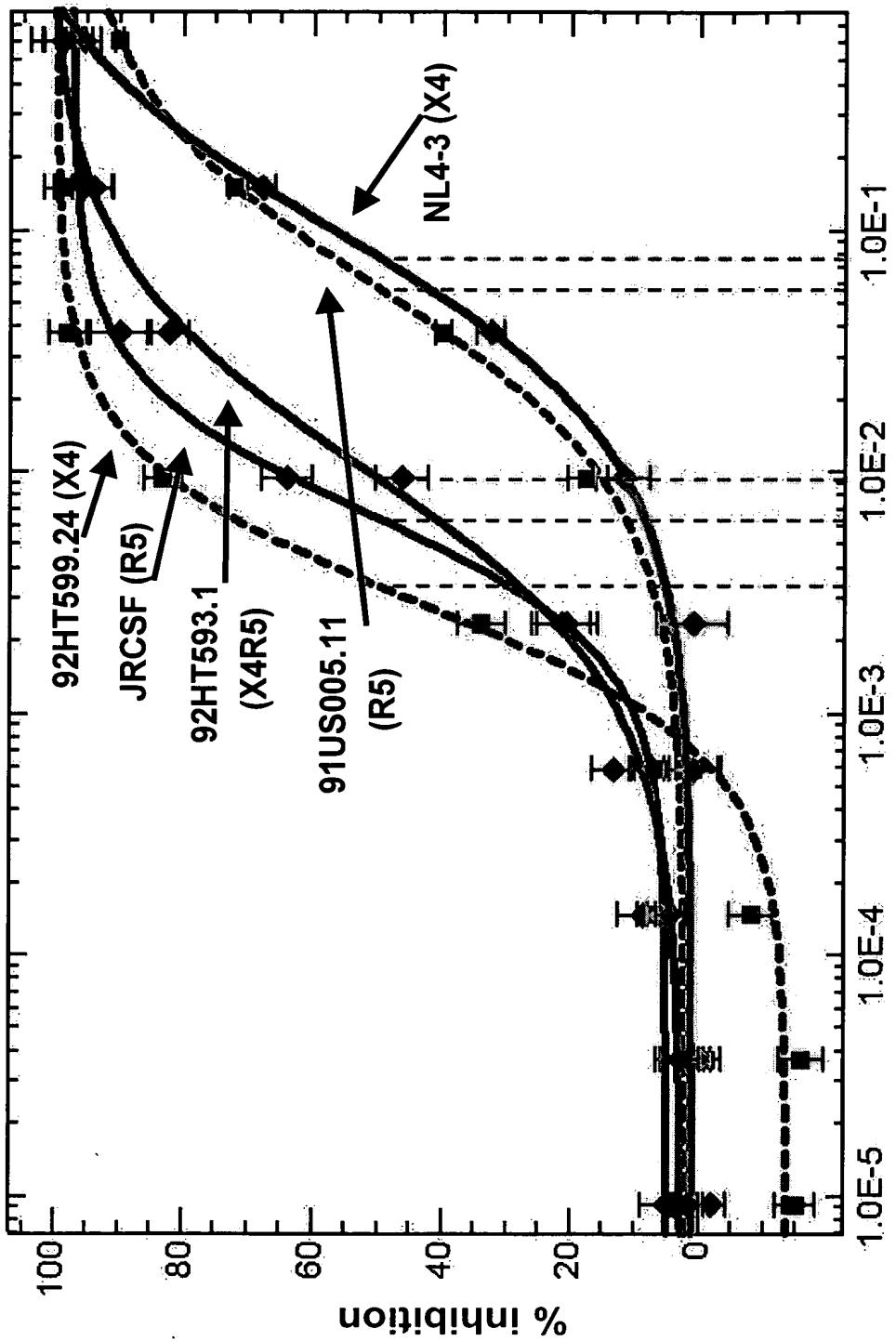
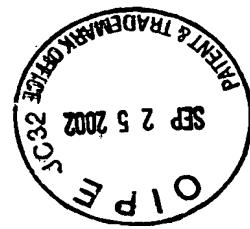


Fig. 4A



Reduced Susceptibility: Fusion Inhibitor

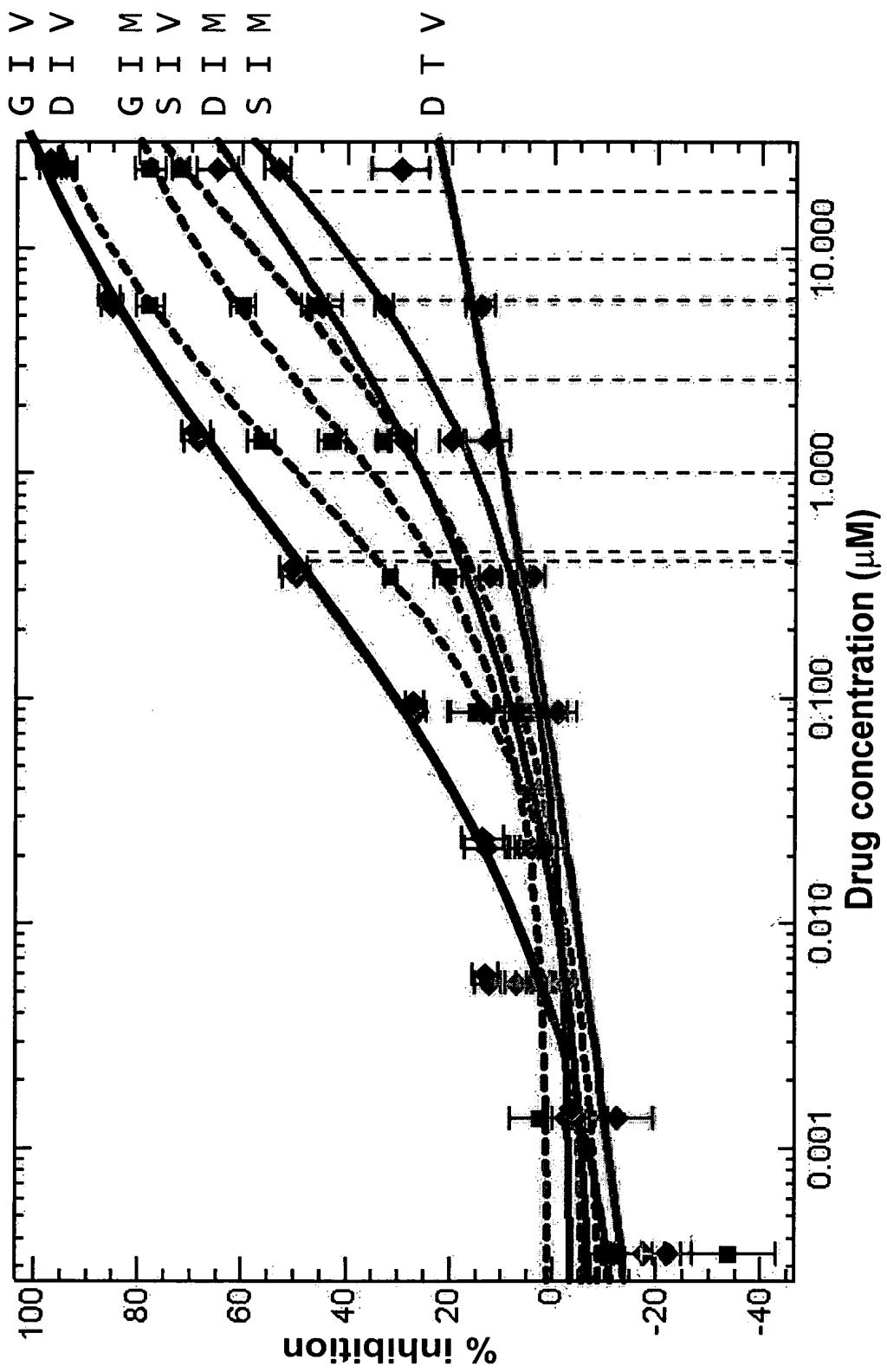
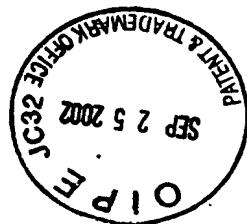
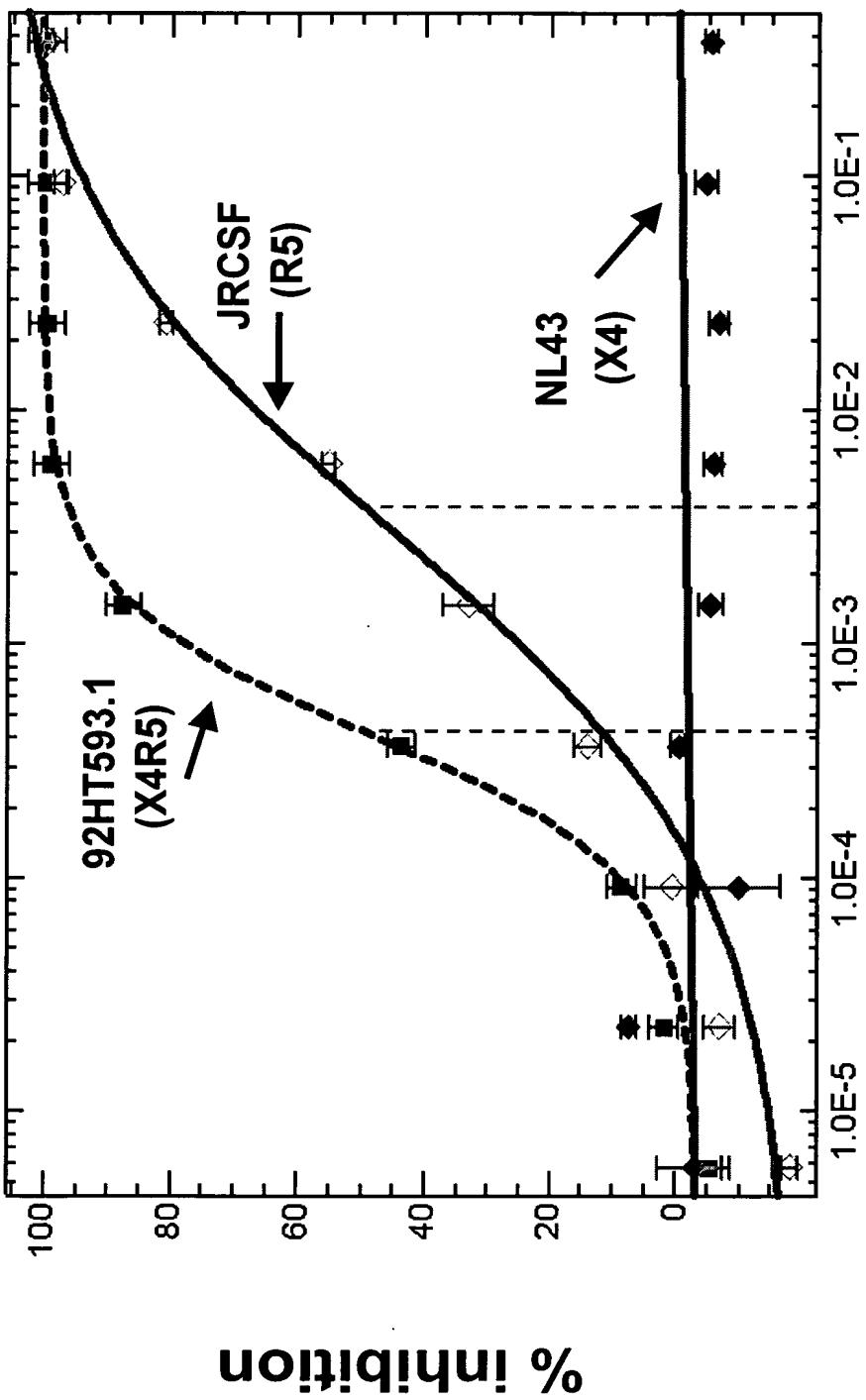


Fig. 4B



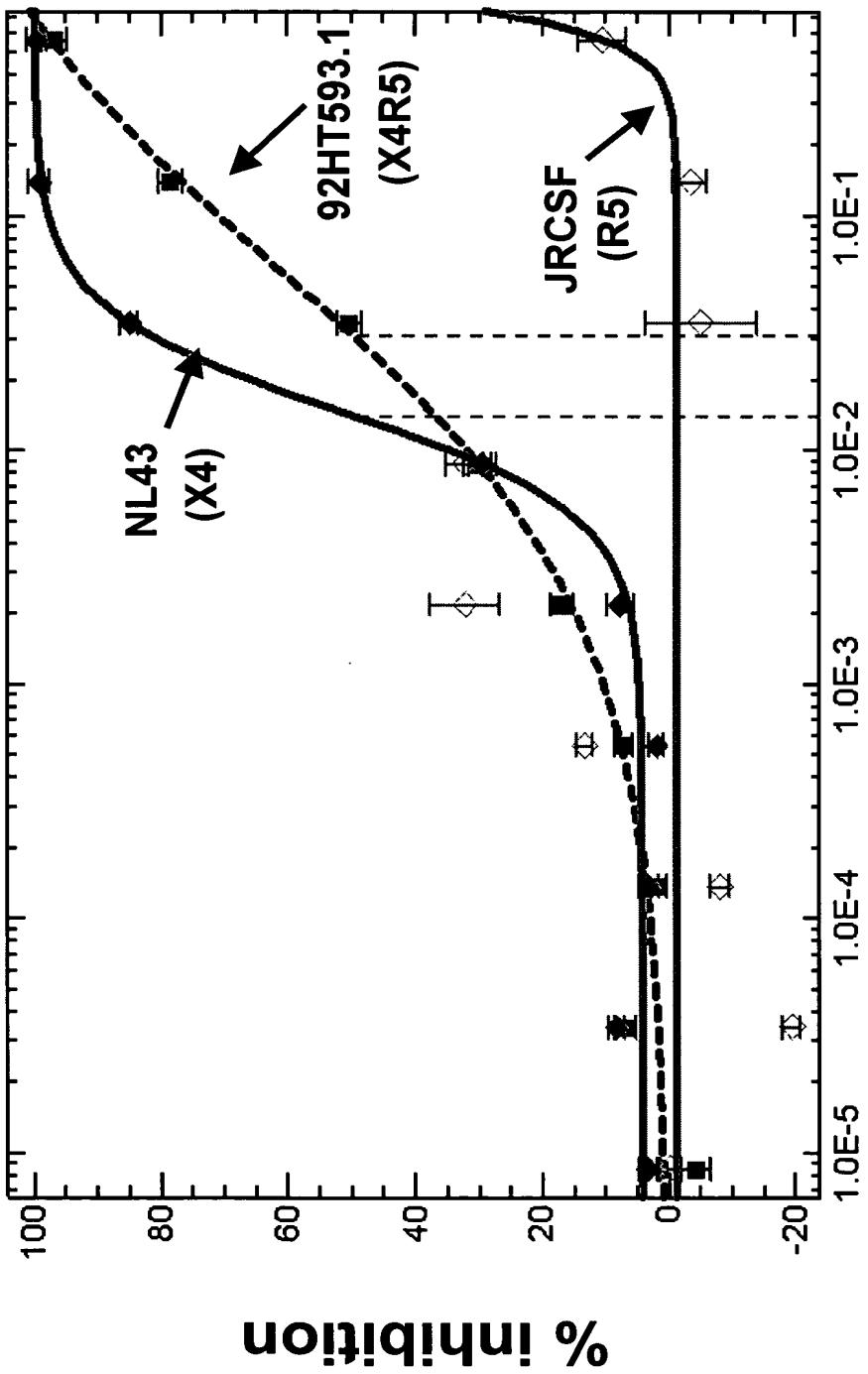
Entry Inhibitor Susceptibility: CCR5 Inhibitor

Fig. 5A

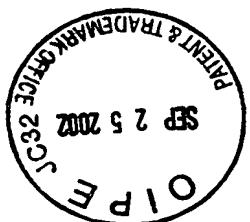


Drug: R5 Inhibitor
Cell: CD4/CCR5

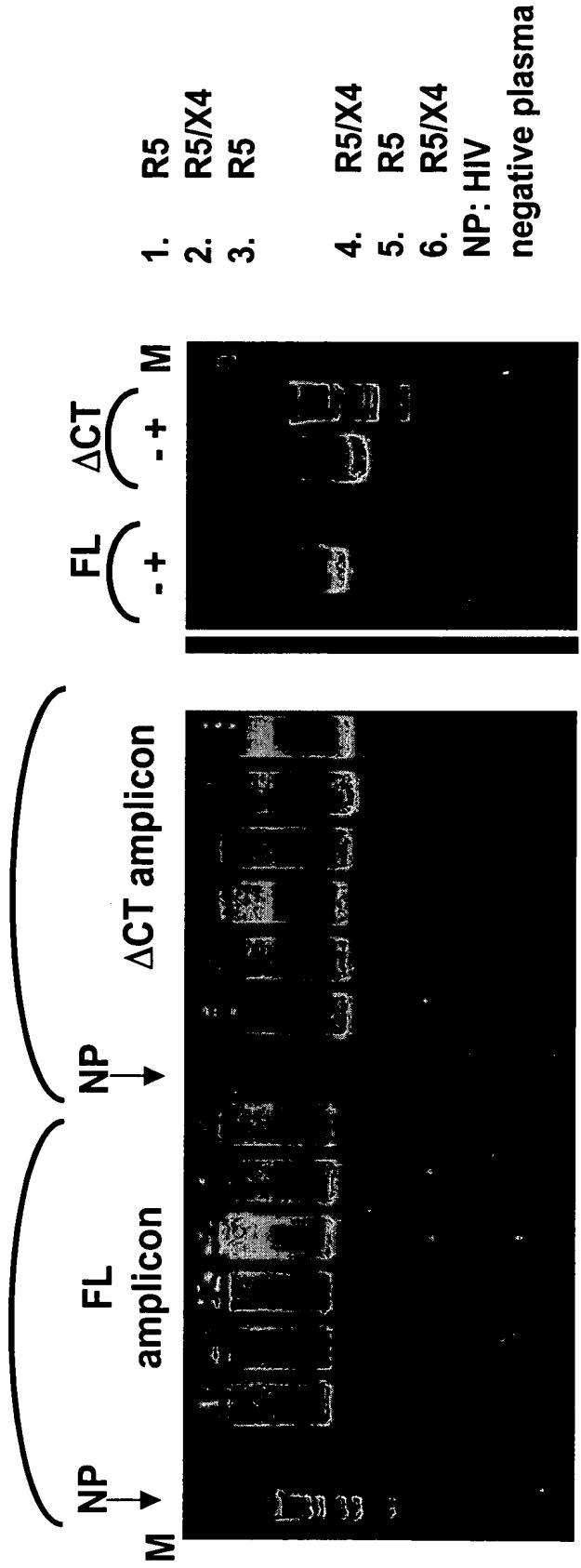
Entry Inhibitor Susceptibility: CXCR4 Inhibitor



Drug: X4 Inhibitor
Cell: CD4/CXCR4



Envelope Sequence Amplification



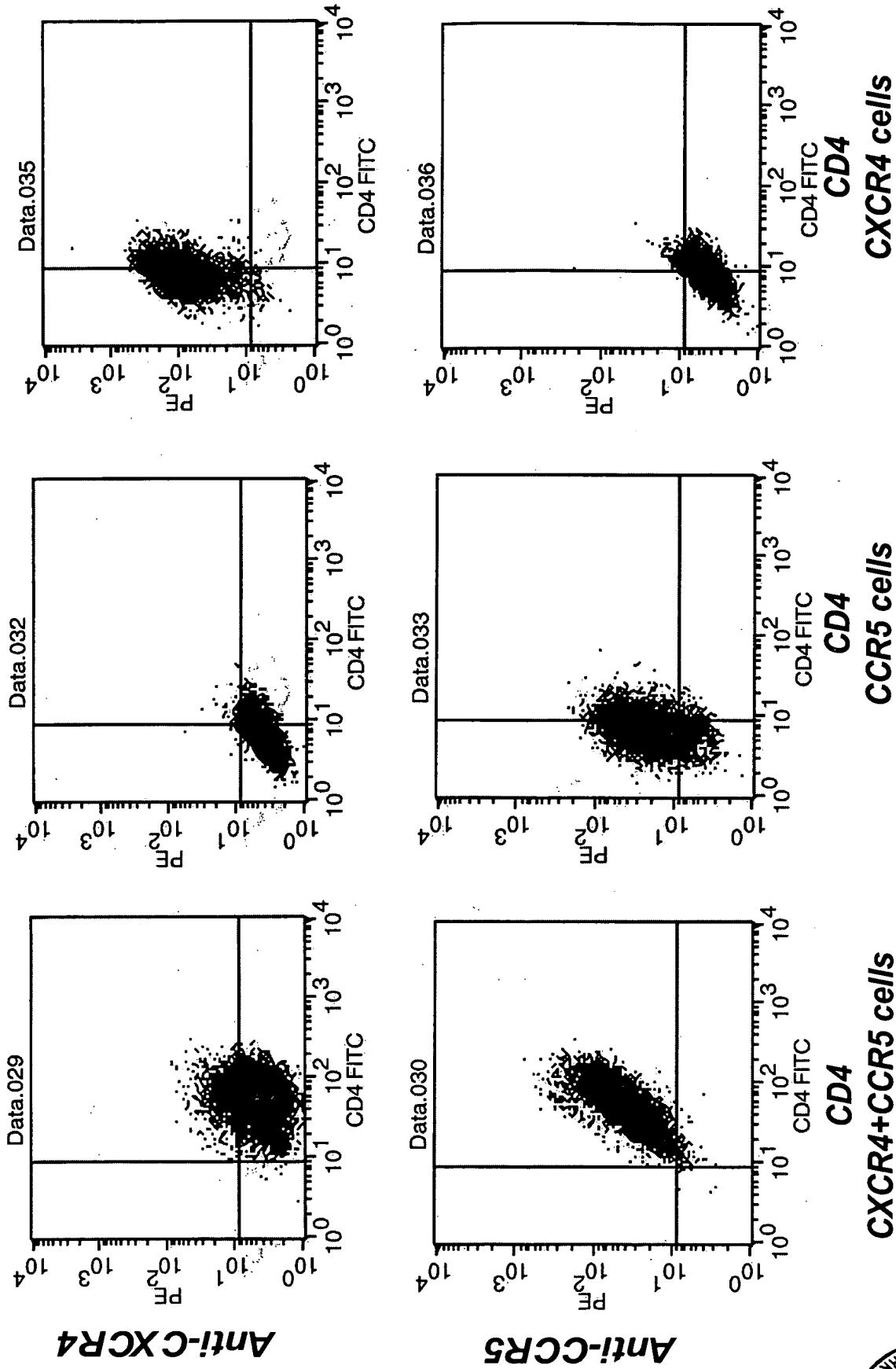
1	2	3	4	5	6	Co- <u>Receptor Tropism</u>	# of isolates	
X4			1	2	3	4	5	6
R5								
X4/R5								
Undefined								

Envelope Subtype	# of isolate
Clade A	2
Clade B	76
Clade C	7
Clade D	1
Clade E	3

Fig. 6

Target Cell Receptor and Co-Receptor Expression

Fig. 7



Inhibition By Co-Receptor Antagonists

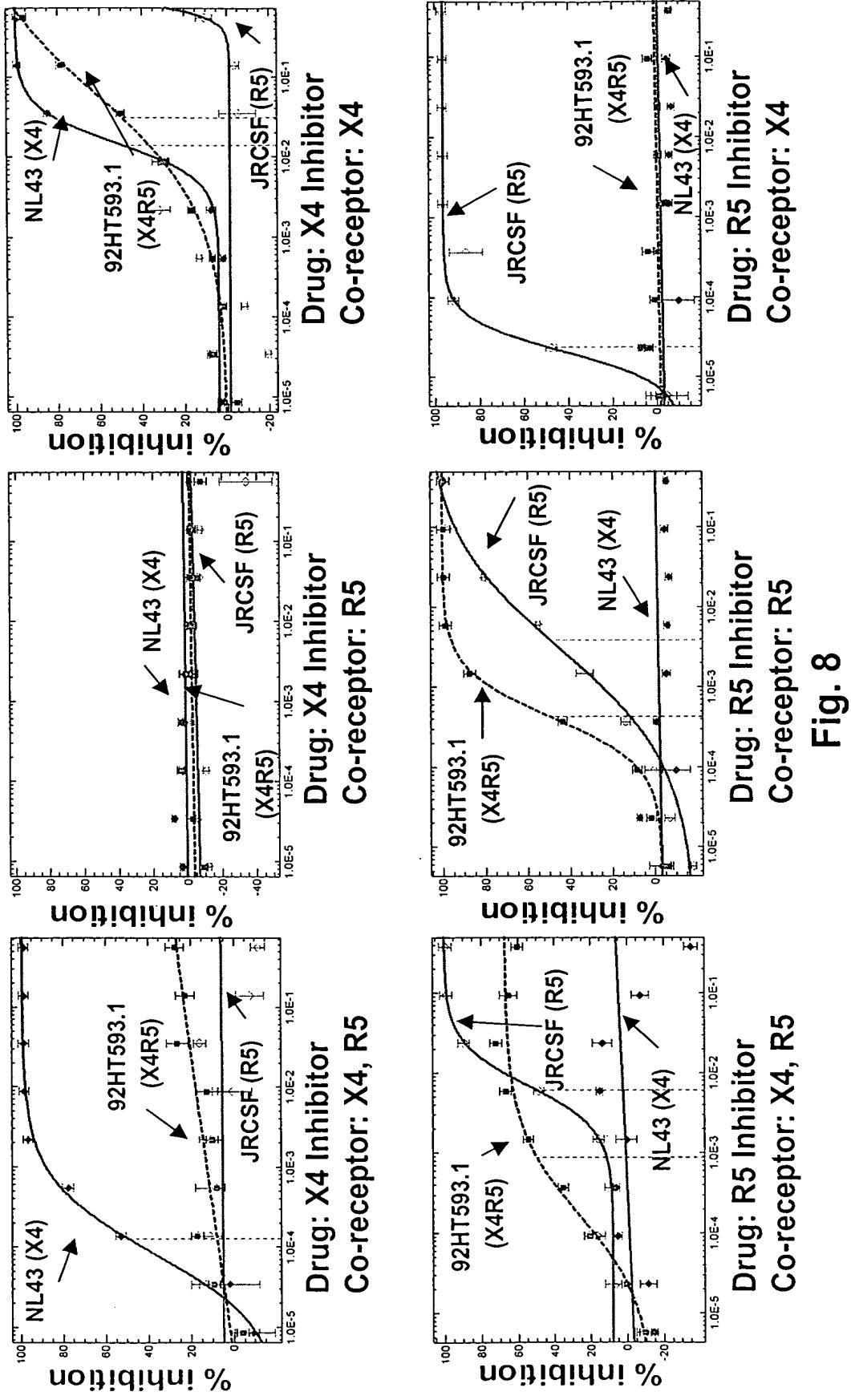
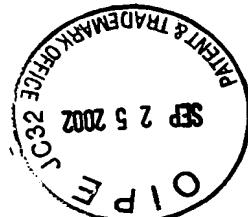
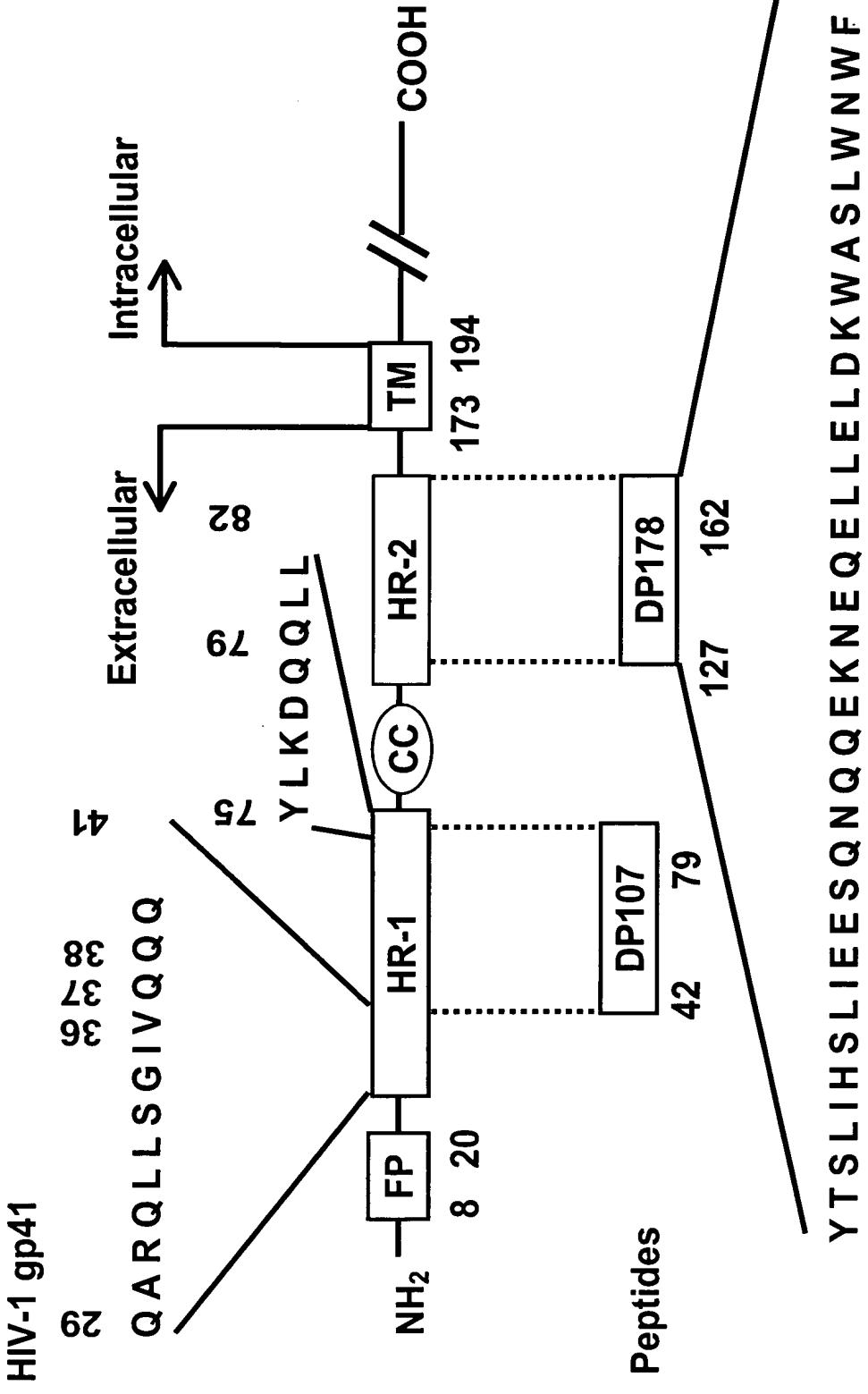


Fig. 8

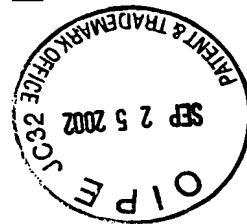


Fusion Inhibitor Peptides



Rimsky, et al., J. Virol. 72 (2):986-993

Fig. 9



Patient Virus v. Patient Antibody

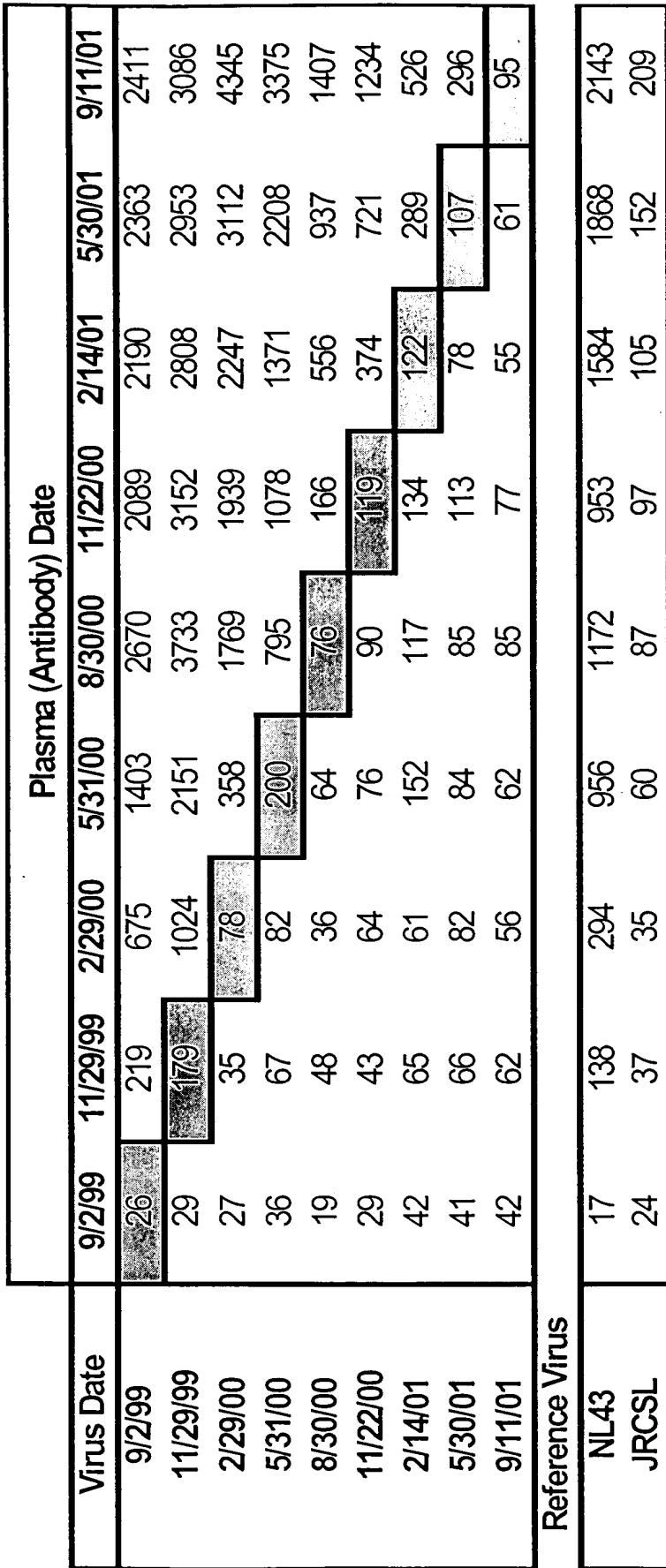


Fig. 10

